

## IN THE SPECIFICATION

**Please amend paragraph 0310 of the instant application as follows:**

[0310] The Racoon system is implemented using the following software components: Phred, Phrap, Cross\_Match (Ewing B, Hillier L, Wendl M, Green P: Base calling of automated sequencer traces using phred. I. Accuracy assessment. Genome Research 8, 175-185 (1998); Ewing B, Green P: Basecalling of automated sequencer traces using phred. II. Error probabilities. Genome Research 8, 186-194 (1998); Gordon, D., C. Desmarais, and P. Green. 2001. Automated Finishing with Autofinish. Genome Research. 11(4):614-625); Python 2.2 as integration and scripting language (Python Essential Reference, Second Edition by David M. Beazley); GeMS Application Programming Interface (Kosan proprietary software); Apache Web Server version 2.0.44 (~~http://httpd.apache.org~~); and Red Hat Linux Operating System version 8.0 (~~http://www.redhat.com~~).

Please also replace Table 12 after paragraph 0351 with the following table:

TABLE 12  
SOURCES OF 140 MODULES IN INITIAL ANALYZED SET

cluster	accession #	<u>Seq ID</u> <u>NO</u>	source (genus)	source (species)	# extension modules
erythromycin	M63676/ <del>M63677</del>	<u>31</u>	Saccharopolyspora	erythraea	6
<u>erythromycin</u>	<u>M63677</u>	<u>32</u>	<u>Saccharopolyspora</u>	<u>erythraea</u>	
megalomicin	AF263245	<u>33</u>	Micrpmonospora	megalomicea	6
oleandomycin	AF220951/ L09654	<u>34</u>	Streptomyces	antibioticus	6
<u>oleandomycin</u>	<u>L09654</u>	<u>35</u>	<u>Streptomyces</u>	<u>antibioticus</u>	
pikromycin	AF079138	<u>36</u>	Streptomyces	venezuelae	6
niddamycin	AF016585	<u>37</u>	Streptomyces	caelestis	7
spiramycin			Streptomyces	ambofaciens	7
tylosin	AF055922	<u>38</u>	Streptomyces	fragidae	7
geldanamycin			Streptomyces	hydroscopicus	7
pimaricin	AJ278573	<u>39</u>	Streptomyces	natalensis	12
pte	AB070949	<u>40</u>	Streptomyces	avermilis	12
avermectin	AB032367	<u>41</u>	Streptomyces	avermilis	12
oligomycin	AB070940	<u>42</u>	Streptomyces	avermilis	16
nystatin	AF263912	<u>43</u>	Streptomyces	nodosus	18
amphotericin	AF357202	<u>44</u>	Streptomyces	noursei	18
					Total: 140